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Imines derived from 4-methyl-4-diphenylphosphorylpentan-2-one and potassium salts of aminocarboxylic acids

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Abstract

© 2017, Pleiades Publishing, Ltd.An effective procedure for the preparation of imines based on 4-methyl-4-diphenylphosphorylpentan-2-one, aminoacetic, aminopropionic, and aminobutyric acids with yields of 90–95% was developed. Reaction of dimephosphone (4-methyl-4-dimethoxyphosphorilpentan-2-one) with potassium salts of these amino acids led to methylation of the carboxy group of the amino acid to form potassium salt of 2-methyl-4-oxopentylphosphonic acid methyl ester.

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Keywords

4-phosphorylimine, aminocarboxylic acid, dimephosphone, dimephosphone potassium salt, γ-phosphoryl ketone

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